

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

27717 7590 10/13/2004

SEYFARTH SHAW
55 EAST MONROE STREET
SUITE 4200
CHICAGO, IL 60603-5803
01/05/2005 HGUTEMA2 00000066 10645169

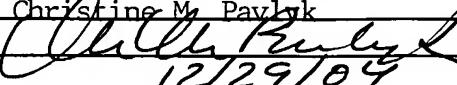
01 FC:2501 700.00 OP
02 FC:1504 300.00 OP
03 FC:8001 12.00 OP



Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (703) 746-4000, on the date indicated below.

Christine M. Pavlyk		(Depositor's name)
		(Signature)
12/29/04		(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/645,169 08/19/2003 Chul-Ju Hwang TJK/408 7621

TITLE OF INVENTION: ATOMIC LAYER DEPOSITION METHOD AND SEMICONDUCTOR DEVICE FABRICATING APPARATUS HAVING ROTATABLE GAS INJECTORS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$685	\$300	\$985	01/13/2005
EXAMINER		ART UNIT	CLASS-SUBCLASS		
CHEN, BRET P		1762	427-248100		

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
 Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
 "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev. 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list
 the names of up to 3 registered patent attorneys or agents OR, alternatively,
 the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Timothy J. Keefer
2 Reg. No. 35,567
3 Seyfarth Shaw LLP

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Justing Engineering Co., Ltd

Kyonggi-do, Republic of Korea

Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government

4a. The following fee(s) are enclosed:

Issue Fee
 Publication Fee (No small entity discount permitted)
 Advance Order - # of Copies 4 four

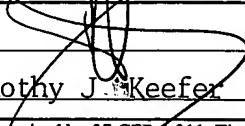
4b. Payment of Fee(s):

A check in the amount of the fee(s) is enclosed.
 Payment by credit card. Form PTO-2038 is attached.
 The Director is hereby authorized to charge the required fee(s), or credit any overpayment, to Deposit Account Number 191351 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature 

Date 12/29/04

Typed or printed name Timothy J. Keefer

Registration No. 35,567

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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TJK/408

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of :)
HWANG) ATOMIC LAYER DEPOSITION
Application No. 10/645,169) METHOD AND
Application Filing Date: 08/19/2003) SEMICONDUCTOR DEVICE
) FABRICATING APPARATUS
) HAVING ROTATABLE GAS
) INJECTORS

TRANSMITTAL LETTER

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Mail Stop: Issue Fee

Dear Sir:

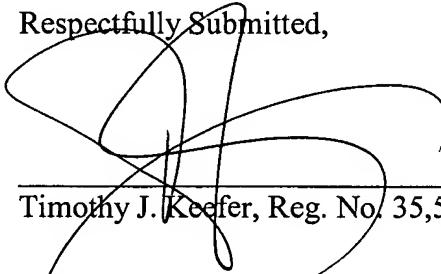
Please find enclosed the following in the above-captioned patent application:

1. Part B – Fee(s) Transmittal in duplicate; and
2. A check in the amount of \$1012.00 in payment of the issue fee, publication fee and soft copy fee.

Please charge any additional fees to Deposit Account No. 19-1351. A duplicate of this transmittal is enclosed.

Please acknowledge receipt of the above by returning the enclosed self-addressed, stamped postcard.

Respectfully Submitted,


Timothy J. Keefer, Reg. No. 35,567

Date: 12/29/04

SEYFARTH SHAW LLP
55 East Monroe Street
Suite 4200
Chicago, Illinois 60603-5803
Telephone: (312) 346-8000
Facsimile: (312) 269-8869

CERTIFICATE OF MAILING

I hereby certify that this paper is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: 12/29/04



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FEETRANSMITTAL
JAN 04 2005 For FY 2005

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 1,012.00)

Complete if Known	
Application Number	10/645,169
Filing Date	08/19/2003
First Named Inventor	HWANG
Examiner Name	
Art Unit	
Attorney Docket No.	TJK/408

METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)		
<input checked="" type="checkbox"/> Check	<input type="checkbox"/> Credit Card	<input type="checkbox"/> Money Order		
<input checked="" type="checkbox"/> Deposit Account	<input type="checkbox"/> None			
Deposit Account Number 19-1351	Deposit Account Name Seyfarth Shaw LLP			
<p>The Director is hereby authorized to: (check all that apply)</p> <p><input type="checkbox"/> Charge fee(s) indicated below</p> <p><input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee</p> <p><input checked="" type="checkbox"/> Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17</p> <p><input type="checkbox"/> Credit any overpayments</p> <p>to the above-identified deposit account.</p> <p><input type="checkbox"/> Other (please identify): _____</p>				
<p>WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p>				
FEE CALCULATION				
1. BASIC FILING FEE				
Fee Description	Fee (\$)	Small Entity Fee (\$)	Fee Paid(\$)	
Utility Filing Fee	790	395	_____	
Design Filing Fee	350	175	_____	
Plant Filing Fee	550	275	_____	
Reissue Filing Fee	790	395	_____	
Provisional Filing Fee	160	80	_____	
Subtotal (1)	\$			
2. EXTRA CLAIM Fee Description Fee (\$)				
Each claim over 20	18	9		
Each independent claim over 3	88	44		
Multiple dependent claims	300	150		
For Reissues, each claim over 20 and more than in the original patent	18	9		
For Reissues, each independent claim more than in the original patent	88	44		
Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	
2	- 20 or HP =	_____ X _____	-	
HP = highest number of total claims paid for, if greater than 20				
3. OTHER FEES Fee Description Fee (\$)				
1-month extension of time	110	55	_____	
2-month extension of time	430	215	_____	
3-month extension of time	980	490	_____	
4-month extension of time	1,530	765	_____	
5-month extension of time	2,080	1,040	_____	
Information disclosure stmt. fee	180	180	_____	
37 CFR 1.17(q) processing fee	50	50	_____	
Non-English specification	130	130	_____	
Notice of Appeal	340	170	_____	
Filing a brief in support of appeal	340	170	_____	
Request for oral hearing	300	150	_____	
-Other: I fee; Pub. fee; 4 copies				1012.00
Subtotal (3)	\$			

SUBMITTED BY			
Signature	Registration No. 35,567 (Attorney/Agent)		Telephone (312) 346-8000
Name (Print/Type)	Timothy J. Keefer		Date 12/29/04

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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